## STEAM TURBINES

Where the blade stresses are too high for convenient use of phosphor bronze, steel blades are adopted, milled out of the solid bar. The blade roots are either dovetailed (fig. 30) and fit into corresponding slots in the

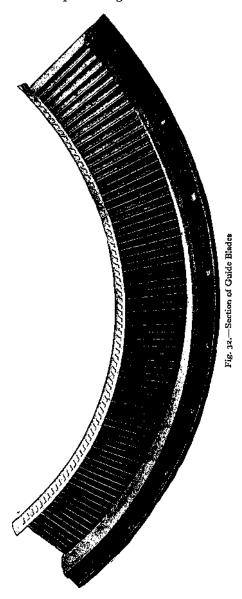




Fig. 31.—Moving Blades with Inverted Dovetails, for Curtis Turbines.

of where the disc rim the disc. or stresses are such as to make it preferable the to reduce rim thickness minimum, then the to a blade roots with are milled inverted dovetail fig. 31. shown in as 32 section Fig. shows of guide blades reverse to the direcof tion of motion the steam between velocity stages. These blades are made in a similar manner the to running blades, and are fitted into a cast-iron ring which is bolted the casing or the nozzle plate. The arc covered by the guide blades is practically to that covered by the first stage nozzles, so that where the nozzles fined to the top half of the casing the same applies to the guide-blade . The British Thomson-Houston Company adopt flexible claw-type coup-